UTAH	H DIVISION OF OIL, GAS	AND MINING	•
REMARKS: WELL LOG FI		LOCATION INSPECTED	SUB. REPORT/ABD.
DATE FILED 5-25-79			
LAND: FEE & PATENTED STATE LEASE NO.	PUBLIC LE	ASE NO.	INDIAN Ute Tribal
DRILLING APPROVED: 5-25-79			
SPUDDED IN:			
COMPLETED: PUT TO PRODUC	CING:		
INITIAL PRODUCTION:			
GRAVITY A.P.I.			<u> </u>
GOR:			
PRODUCING ZONES:			
TOTAL DEPTH:			
WELL ELEVATION:			
DATE ABANDONED: LOCATION Abandon	red June 19,1	981	
FIELD: Undes. 3/86 Altamout			•
UNIT: Skitzy Canyon			
county: Duchesne			
WELL NO. Skitzy Canyon Ute 2-23-1A		API NO: 4	3-013-30490
LOCATION 1210' FT. FROM (N) XX LII	NE. 1187 T. FT. FROM	MXX) (W) LINE. NW N	
TWP. RGE. SEC. OPERATOR	TWP.	RGE. SEC. OPE	ERATOR

45

6W 23 GULF OIL CORPORATION

#### MARY MODATION

Entered in NID File

Location Map Pinned
Card Indexed

Card Indexed

Checked by Chief

Approval Letter

Disapproval Letter

COMPLETION DATA:

Location Inspected

GW.... OS.... PA....

Bond released State or Fee Land .

LOGS FILED

Driller's log......

Comminted .....

Electric Logs (No.) .....

E..... I..... Duel I Lat.... Go-H.... Micro.....

RHC Sonic GR...... Lat...... Mi-L..... Sonic.....

Jhg 16 A

everse side)		1.	÷ 15	125	が食品	
	5.	LEASE	DESIGN	ATTON	AND SERIAL	NO.
	1 9.	~~~~	2202021	~~~~		4

DEPARTMENT OF T	THE INTERI	OR	ſ	5. LEASE DESIGNATION	AND SERIAL NO.
GEOLOGICAL :	SURVEY			14-20-H62-18	882
APPLICATION FOR PERMIT TO DR	ILL DEEPE	N. OR PLUG BA	<b>ACK</b>	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
	112.12/	7		<u> Ute Tribe</u>	
DRILL X DEF	PEN 🗌	PLUG BAC	K □	7. UNIT AGREEMENT N	and the second
TYPE OF WELL	SIN	CLE ( MULTIPL	,	8. FARM OR LEASE NAM	
H, GAS WELL OTHER	ZON			O, FARM OR DRASE RAD	Market Control
AME OF OPERATOR		; ;		9. WELL NO.	
Gulf Oil Corporation		<u> </u>		1-23 Ute Tr	ibal Al
DERESS OF OPERATOR C/O Environmental En			:	10. FIELD AND POOL, O	V- V-
1720 South Poplar, Suite 5, Caspe	In, WyOIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ozoul ate requirements.*)		Wildcat	· 多更是
t surface		1		11. SEC., T., R., M., OR I AND SURVEY OR AR	BLK.
1,210' FNL & 1,187' FWL, Sec. 23-	-T4S-R6W.,	Uinta Mer.		AND SURVEY OR AR	23-T4S-R6W.
t proposed prod. zone Same	A MARINE TO THE STATE OF THE ST	gar sa e in esperae i que mondenis, propriétarente	1	Uinta Merid	
DISTANCE IN MILES AND DIRECTION FROM NEAREST TOW	N OR POST OFFICE	,		12. COUNTY OR PARISH	
9.1 miles southwest of Duchesne,		<u>:</u>		Duchesne	Utah
DISTANCE FROM PROPOSED*		OF ACRES IN LEASE		F ACRES ASSIGNED	
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 1, 187	7	640.00		40	3 5 5
DISTANCE FROM PROPOSED LOCATION*	19. PRO	POSED DEPTH	20. ROTAL	Y OR CABLE TOOLS	greg j
TO NEAREST WELL, DRILLING, COMPLETED, or APPLIED FOR, ON THIS LEASE, FT. 3,500	)'	6,500'		Rotary	8 2 2
ELEVATIONS (Show whether DF, RT, GR, etc.)			111	22. APPROX. DATE WO	
6,696' GR.	:		4	November 1,	
All New Propose	D CASING AND	CEMENTING PROGRA	м 🤨 🚉		
SIZE OF HOLE SIZE OF CASING WEIG	HT PER FOOT	SETTING DEPTH		QUANTITY OF CEME	NT.
20 1/2" 16" 65	5# H-40	60'		acks	Yy Y
12 1/4"   9 5/8" <u>  36</u>	6# K-55	1,000'		sacks	- X X
8 3/4" 7" 26	5# K-55	5,900'	ł .	sacks	
6" 5" 18	3# N-80 '	6,500'-(5,800) <sup>1</sup>	200 3	sacks [ ] [ ] [ ]	
			+h 75 /	anoke.	
1. Drill 20 1/2" hole to 60' and	d set 16" s	urtace pipe wi	しひ /ひこ +6 //25	sacks.	- 김 <i>수</i> 원
2. Drill 12 1/4" hole to 1,000'	and set 9	5/8" casing wi	n cach	Sucks.	
3. Drill 8 3/4" hole to 5,900' a 4. Drill 6" hole to 6,500' and b	and set /	casing with 500	+0 T	D and cement	to top.
4. Drill 6" hole to 6,500' and 1	nang bilin	er 110m 3,000	<b>(U ) .</b> 1		4 6
Exhibits Attached			gen		
A. Location and Elevation Plat	F. Acces	s Road Map	13		S ( )
B. Ten-point Compliance Program	F. Topog	raphic Map	95 169		실험하실
C. Blowout Preventer Diagram	G. Drill	Pad layout w/	Cut &	Fill Contours	కేజాక్ష్మ మర్జన్
D. Multipoint Surface Use Plan		State of Utah, D	)epartn	ent of Natural	Resources
		Division of Oil,	Gas ai	nd Mining	
		DIVISION OF OR,	سرس, س		Da & E. 1977

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive sone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

BIGNED REPRESIMANT	Area Drilling Sup't DATE October 13, 1978

APPROVAL DATE

(This space for Federal or State office use)

ACTING DISTRICT ENGINEER

PERMIT NO.

CONDITIONS OF APPROVAL, IF ANY

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NECESSARY FLARING DE GAS DURING DRILLING AND COMPLETION APPROVED SUBJEDT TO ROYALTY (NTL-4)

	U. S. GEO	DLOGICAL SURVEY	- CONSERVAT	ION DIVISION	N	
FROM: : DISTR	CICT GEOLOGIST, FE	•	•			٠
	CICT ENGINEER, 0&G			• .	•	
	INERAL EVALUATION			EASE NO. 14	-20-н62-188	2
OPERATOR: Gulf	Oil Corporation			•	3 Ute Triba	
LOCATION:\	NW t nw t sec.	<u>23</u> , T. 4 S	., R. 6 W.	USM		
Duche		unty, <u>Utah</u>				
1. Stratigraphy:	: Operator project	ted tops appear	reasonable			
		Uintal format				
	661-	Green River F Douglas Creek	ormation (po	ssible oil	and gas)	•
	6,012-	Wasatch (pos	sible oil and	gas)		· · · · · ·
•						
		•				
2 Fresh Water			•			
2. riesh water: 1	Fresh water could 1500 feet.	occur in the Gr	reen River Fo	rmation to a	a depth of	
•	•		•	•	•	
						•
3. Leasable Mine	rals: The area is	underlain by o	oil shale. O	il shale sho	ould be enco	untered
	in the Gree	n River Formati	on.			
•		•		•		
			•	•	•	
				•	•	•
	· · ·	•	1			
4. Additional Log	gs Needed: APD Logs	ging program (F	DC and gamma)	should be	run through	
	oil-sha	en River Format le beds.	ion to enable	identifica	tion of the	
	•		•	•		
F : D-4			٠			
5. Potential Geol	thro	e minor lost cir ough the Green l anticipated.	rculation zon River Fm. No	es could be other geold	encountered Ogic hazards	
			,		•	
6. References and	Remarks: One other	er well drilled not yet been com	by the opera	tor in this	section, bu	t
REF: US	SGS Files, Salt La	ke City, Utah	-			
	Januar & 111 "		•			
Signature:	June 1 Julio		Date: 10	<del>- 23 - 78</del>	,	

Date November 6, 1978

# United States Department of the Interior Geological Survey 8440 Federal Building Salt Lake City, Utah 84138

# Usual Environmental Analysis

Lease No. Ute (14-20-H62-1882)				
Operator Gulf Oil Corporation		Well No. 2	-23	
Location 1210' FNL; 1187' FWL	Sec. 23	T. 4 <u>S.</u>	R.6 <u>W.</u>	
	State Utah	Field <sub>k</sub>	ildcat	
State of Status: Surface Ownershipof Wildl	Utah Div. <u>ife Resou</u> r Min	erals <u>Iriba</u> l		
Joint Field Inspection Date November	er 6, 1978			
Participants and Organizations:				
Jack Skew	Dirt Contra	ictor		
Lynn Hall	Bureau of I	ndian Affair	<u>s</u>	
Darryl Cooper	Gulf Oil Re	epresentative	•	
Gene Wilson	U.S. Geolog	jical Survey		•
				••
				•
			•	
	from the style for a for a for a for a for the state of t	pit os r opa pl	100 X 2 00 100 X 2 00 ni new acc no not on to a pochepile 3.5 c	ness ace produ
Analysis Prepared by: Gene Wilson Environmental Salt Lake Cit	l Scientist	d by: George	Diwachak nmental Scie	entist

Noted - G. Diwadnas.

## Proposed Action:

On October 13, 1978, Gulf Oil Corporation filed an Application for Permit to Drill the No. 2-23 exploratory well, a 6500-ft. oil test of the Wasatch Formation; located at an elevation of 6696 ft. in the NW $\frac{1}{4}$  NW $\frac{1}{4}$  Sec. 23, T. 4S., R. 6W., on Tribal mineral lands and private surface; lease No. 14-20-H62-1882. There was no objection raised to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface and 13-Point Surface Protection Plans are on file in the U.S.G.S. District Office in Salt Lake City, Utah and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming.

A working agreement has been reached with the Utah Division of Wildlife Resources, the controlling surface owner-agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 185 ft. wide x 400 ft. long and a reserve pit 100 ft x 200 ft. A new access road would be constructed 18 ft. wide x 0.5 miles long and upgrade 18 ft. wide by 0.75 miles access road from an existing and improved road. The operator proposes to construct production facilities on the disturbed area of the proposed drill pad.

If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The anticipated starting date is upon approval and duration of drilling activities would be about 60 days.

# Location and Natural Setting:

The proposed drill site is approximately 9.1 miles southwest of Duchesne, Utah, the nearest town. A fair road runs to within 1.25 miles of the location. This well is a wildcat.

# Topography:

The area is very dissected with steep slopes. The selected site is located about 500 ft. above the floor of a short canyon that opens into Skitzy Canyon. Skitzy Canyon is very steep following the west boundary of Section 23.

## Geology:

The surface geology is the Uintah Formation. The soil is sandy clay with small/large rock. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan. The geologic markers for this site specific are: Green River @ 661', Douglas Creek @ 4162', Wasatch @ 6012'.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation does exist and is possible in the Green River and Douglas Creek Formations. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

# Soils:

No detailed soil survey has been made of the project area. The top soils in the area are sandy clay typical of the Uintah Formation. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community. The pinon, juniper association is also present.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed area when abandoned to aid in rahabilitation of the surface. Rahabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Indian Affairs.

Approximately 3.5 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

#### Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emmissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases are not anticipated.

## Precipitation:

Annual rainfall should range from about 9 to 16" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 9".

Winds are medium and gusty, occurring predominately from west-southwest to east-northeast. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

# Surface Water Hydrology:

The primary drainage from the site area is Skitzy Canyon. The Skitzy Canyon drains into the Strawberry River (Starvation Resevoir).

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

## Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. There would be no tangible effect on water migration in fresh water aquifers. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

## Vegetation:

The vegetation at the location consists of buck brush, (Mountain Mahagony), Mormon tea, cactus, pinon Pine, Juniper, and grasses (sparce).

Plants in the area are of the pinon-juniper association.

Proposed action would remove about 3.5 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

# Wildlife:

Animal and plant inventory has been made. No endangered plants or animals are known to habitat on the project area. The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of recreation. The birds of the area are raptors, finches, ground sparrow, magpies, crows, and jays.

# Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construct-

ion operations; activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment will not be visible to passersby of the area and should not present a major intrusion.

The overall effect of oil and gas drilling and production activity are significant in Duchesne, Utah.

But should this well discover a significant new hydrocarbon source, local, state, and possible national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location. The surface agency (Utah Division of Wildlife Resources) has not offered any objection to the proposed activity.

# Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

## Alternative to the Proposed Action:

1) Not Approving the Proposed Permit--The Oil and Gas Lease Grants The Lessee Exclusive Right To Drill For, Mine, Extract, Remove and Dispose Of All Oil and Gas Deposits.

Under leasing provisions, the Geological Survey has an obligation to allow mineral development <u>if</u> the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of (oil and gas) should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

2) Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal, or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

# Adverse Environmental Effects Which Cannot be Avoided:

Surface disturbance and removal of vegetation from approximately 3.5 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife. Minor induced air pollution due to exhaust emmissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil or water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplacable and irretrievable committment of resources would be made. Erosion from the site could eventually be carried as sediment in the Starvation Reservoir.

The potential is high for pollution to Skitzy Canyon eventually finding its way to the Starvation Reservoir. Operations should be monitored for leaks and spills and also poor drilling practices.

#### Determination:

This requested action does/does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Sec. 102(2) (C).

Date 12/4/28

District Engineer
U.S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District

SUBMIT IN TRIPLIC (Other instructions

Form approved. Budget Bureau No. 42-R1425.

A		T OF THE		Teverse si	ucy		
	DEPARTMENT	GICAL SURV		IOR		5. LEASE DESIGNATION A 14-20-2462	AND SERIAL NO.
APPLICATIO	n for permit	TO DRILL, [	DEEPE	N, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK		<del></del>				Ute Tribal	•
DR	ILL 🛛	DEEPEN [		PLUG BAC	CK 🗍	7. UNIT AGREEMENT NA	ME
b. Type of well						. Skitzy Canyo	on lite
MEI'T X	VELL OTHER			NGLE MULTIP	rr 🗌	8. FARM OR LEASE NAM	Е
2. NAME OF OPERATOR				- COENE		Skitzy Canyon	Ute 23
Gu 1	f Oil Corporati	on		AUG 13 1919		9. WELL NO.	
				1116 13		Skitzy Canyon	lite #2-23-1A
P.0	). Box 2619, Cas	per. WY 826	502	AUSION OPING		10. FIELD AND POOL, OR	WILDCAT
4. LOCATION OF WELL (F	Box 2619, Cas Report location clearly and & 1187' FWL Sec	in accordance wit	h any S	tate requirements.*)		Undesignated	
1210' FNL	& 1187' FWI Sec	. 23-T4S-R6	W. IN	nia Meridian		11. SEC., T., R., M., OR BI	LK.
At proposed prod. zor	ne	. 20 170 110	,,, O			AND SURVEY OR ARE	. 23, T4S, R6W
Same						Unita Meridian	
	AND DIRECTION FROM NEA	REST TOWN OR POS	r office	*		12. COUNTY OR PARISH	
8 miles so	uthwest of Duch	esne litah				Duchesne	Utah
15. DISTANCE FROM PROP	OSED*	conce ocum	16. NO.	. OF ACRES IN LEASE		F ACRES ASSIGNED	o can
PROPERTY OR LEASE	LINE, FT.	1187'		540	TO TE	40	
(Also to nearest drl 18. DISTANCE FROM PROD		1107		OPOSED DEPTH	l	· -	
TO NEAREST WELL, I OR APPLIED FOR, ON THE	ORILLING, COMPLETED.	1187'			20. ROTA	Potany	•
21. ELEVATIONS (Show wh		110/		5800	<u> </u>	Rotary	
	letter Dr., KI, GR., etc.)					July 15, 1979	
GR 6696'						July 15, 1979	) 
20.		PROPOSED CASIN	G AND	CEMENTING PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	SETTING DEPTH		QUANTITY OF CEMENT	r .
17-1/2	13-3/8	48 H4C	<u> </u>	61		75 sacks	
12-1/4	9-5/8	36 K55	il.	1000		25 sacks	
8-3/4	7	26 K55	; ]	5800	l .	50 sacks	
	i	1	1		l		

***	ABOVE STACE DESCRIBE PROPU	sed Program; II proposal	is to deepen or plug back,	give data on present p	productive zone and proposed	i new productive
zor	ie. If proposal is to drill or	r deepen directionally, give	pertinent data on subsurf	ace locations and measu	ured and true vertical denth	g Give blowout
pre	venter program, if any.		-		and and true vertical depth	s. arre browout
24						<del></del>

preventer program, it any.		
signed AM atthews	TITLE Area Drilling Supt.	<sub>DATE</sub> May 16, 1979
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY APPROVAL IE ANY.	ACTING DISTRICT ENGINEER	AUG 0 9 1979

NOTICE OF APPROVAL

\*See Instructions On Reverse Side

NECESSARY FLARING OF GAS DURING DRILLING AND COMPLETION APPROVED SUBJECT TO ROYALTY (NTL-4)

	T GEOLOGIS ME, SALT LAKE	CITY, UTAH
	T ENGINEER, O&G, SALT LAKE	CITY, UTAH
OPERATOR: GULF	ERAL EVALUATION REPORT	LEASE NO. 14-20-H62-1882
		WELL NO. 2-23-1A
•	<b>2ω</b> ξ <b>Νω</b> ξ sec. 23, τ	-
DUCH	ESNE county, Ut	AU
4700 1 5900 1 5900 1 2. Fresh Water: U	- Breen River - Douglas Cre - Wasatch ( - T.D. Isable water m	d tops perm resonable: (e) (water, 0+9 + oil shale) ek (oil shale) possibly 0+9) alphe encountered in the ms.
Should be about 45	the orla is encurnhered is	underlæin by oilshale which in the Breen Ewier from
	•	tion laterolog, sp, gr y formation utran logo should be sun to identify oil shale beds ticipated by the operator.
6. References and	Remarks: None	
Signatura	em h	Date: (0 - (0 - 79

United States Department of the Interior Geological Survey 8440 Federal Building . Salt Lake City, Utah 84138

Unusual Environmental Analysis

Lease No.: TL-1882

Operator: Gulf Oil Corp

Well No.: 2-23-1A

Location: 1210' FNL & 1187' FWL Sec.: 23 T.: 4S R.: 6W

County: Duchesne State: Utah

Field: Undesignated

Status: Surface Ownership: Indian

Minerals: Tribal

Joint Field Inspection Date: 6-19-79

Participants and Organizations:

Craig Hansen

U.S.G.S. Vernal

Roman Geissel

U.S.G.S. Vernal

Mark Christensen

U.S.G.S. Vernal

Dale Hanberg

BIA Ft. Duchesne

Emmit Booher

Gulf Oil

Jack Skews

Skews & Hamilton Const.

Analysis Prepared by: Craig Hansen

Environmental Scientist

Vernal, Utah

Date: 6-21-79

#### Proposed Action:

On May 21,Gulf Oil Corporation filed an Application for Permit to Drill the No. 2-23-1A development well, a 5800 foot oil test of the Wasatch Formation, located at an elevation of 6,606' ft. in the Nw/4 NW/4 Section 23-4S-6W on Tribal mineral lands and Indian surface; lease No.Tl 1882. There was no objection to the wellsite nor to the access road.

A rotary rig would be used for the driling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drillling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the U.S.G.S. District Office in Salt Lake City, Utah and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the Bureau of Indian Affairs, the controlling surface agency. Rehabilitation plans would be decided upon as well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to contruct a drill pad 185' ft. wide x 400 ft. long and reserve a pit 100 ft. x 200 ft. A new access road would be constructed 18 ft. wide x 0.8 miles long and an existing road would be upgraded to 18 ft. wide by 0.9 miles long from a maintained road. The operator proposes to construct production facilities on disturbed area of the proposed drill pad. If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The anticipated starting date is 7-15-79 and duration of drilling activities would be about 60 days.

# Location and Natural Setting:

The proposed drillsite is approximately 8 miles Southwest of Duchesne Utah the nearest town. A poor road runs to within 0.8 miles of the location. This well a Undersignated field.

# Topography:

The location is on top of a flat ridge trending to the west with steep canyons to the north, south and west of the location.

EA #350-79

#### Geology:

The surface geology is Uinta Formation.

The soil is weathered shale with sandy to sandy clay mixed with shale are present on the location.

No geologic hazards are known near the drillsite.

Seismis risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan

Approval of the proposed action would be conditioned that adequate and sufficient electric and density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formations to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occuring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U. S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey Engineers and determined to be adequate.

# Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community. The pinon-juniper association is also present.

EA #350-79

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of distrubed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed ares. The operator proposes to rehabilitate the location and access road per the recommendations of the Bureau of Indian Affairs.

Approximately 3.9 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

#### Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicluar traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

# Precipitation:

Annual rain fall should range from about 8" to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is aroung 8".

Winds are medium and gusty, occurring predominately from West to East. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

EA #350-79

## Surface Water Hydrology:

The location drains steeply to Skitzy Canyon a non perennial drainage, which flows intermittently to the Strawberry River.

The Strawberry River is the only perennial drainage that could be affected by the location.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks and spills. The operator is required to report and clean-up all spills or leaks.

## Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basis information as all shows of fresh water would be reported. Water production with the gas would require disposal of producted water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. The pits would be lined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

# <u>Vegetation:</u>

Sayebrush, rabbitbrush, needle grass, bunch grass, mormon tea, pinon and juniper exist on the location.

Plants in the area are of the salt-desert-shrub types grading to the pinon-juniper association.

Proposed action would remove about 3.9 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

#### Wildlife:

The fauna of the area consists predominately of mule deer, coyotes, rabbits, foxes, and varities of small ground squirrels and other types of rodents and various types or reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

No endangeres plants or animals are known to inhabit the project area.

#### Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations; activity would cease until the extent, the scientific importance, and the method of mitigation the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operations may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

After drilling operations, completion equipment would be visible to passersby of the area but would not present a major intrusion.

The economic effect of one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Duchesne County.

But should this well discover a significant new hydrocarbon source, local, state and possibly national economics might be improved. In this instance, other development wells would be anticipated, with substantialy greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

## Waste Disposal:

The mud and reserve pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

## Alternative to the Proposed Action:

1). Not approving the proposed permit -- the oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits.

Under leasing provisions, the Geological Survey has an obligation to allow mineral development <u>if</u> the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as mush as possible under U.S.G.S. and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

2). Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetation, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

- 3). Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator.
- A. Reserve pits should be lined with heavy plastic to insure pit intergrity.
  - B. Trees would be cut and piled before construction begins.

#### Adverse Environmental Efects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately 3.9 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emmissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associatd with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spils of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aguifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable committment of resources would be made. Erosion from the site would eventually be carried as sediment in the Strawberry River. The potential for pollution to the Skitzy Canyon would exist through leaks and spills.

# Determination:

This requested action  $\frac{d}{d} = \frac{d}{d} = \frac{$ 

7/13/79 Date

District Engineer
U. S. Geological Survey
Conservation Division
Oil and Gas Operations

Salt Lake City District

Form approved. Budget Bureau No. 42-R1425.

	DEPARTMEN' GEOLO	T OF THE I		lor		1.	5. LEASE DESIGNATION	N AND SERIAL NO.
APPLICATION	Y FOR PERMIT	TO DRILL, D	DEEPE	N, OR	PLUG	BACK	6. IF INDIAN, ALLOTTI	CE OR TRIBE NAME
1a. TYPE OF WORK	LL X	DEEPEN [			PLUG BA		Ute Tribal	NAME
b. TYPE OF WELL		DLLFEIN (		•	LOG DA		Skitzy Can	von Ilte
OIL X C	S OTHER		SIN	NGLE D	MULT	IPLE _	8. FARM OR LEASE NA	AME
2. NAME OF OPERATOR	<u> </u>	<del></del>					Skitzy Canyo	n Ute 23
Gul	f Oil Corporati	ion					9. WELL NO.	
3. ADDRESS OF OPERATOR	. <u> </u>	<u> </u>					Skitzy Canyo	n Ute #2-23-1A
P.O	. Box 2619, Cas	per. WY 826	502				10. FIELD AND POOL,	
4. LOCATION OF WELL (R	eport location clearly and	i in accordance wit	h any Si	tate require	ments.*)		Undesignated	• •
	& 1187' FWL Sec	. 23-T4S-R6	W. Ur	nita Me	ridian		11. SEC., T., R., M., OR AND SURVEY OR	BLK.
At proposed prod. zon			,				NW/4, NW/4"S	ec. 23, T4S, R6I
Same							Unita Meridi	an
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST	r office				12. COUNTY OR PARIS	H   13. STATE
8 miles so	uthwest of Duch	esne, Utah				:	Duchesne	Utah
15. DISTANCE FROM PROPORTION TO NEAREST	SED*	1	16. NO.	OF ACRES	IN LEASE		NO. OF ACRES ASSIGNED TO THIS WELL	
PROPERTY OR LEASE I	INE, FT.	1187'	. 6	540			40	
18. DISTANCE FROM PROP	OSED LOCATION*		19. PRO	POSED DEP	гн	20. F	COTARY OR CABLE TOOLS	
TO NEAREST WELL, DO OR APPLIED FOR, ON THE		1187'	5	5800			Rotary	
21. ELEVATIONS (Show who	ther DF, RT, GR, etc.)						22. APPROX. DATE W	
GR 6696'							July 15, 19	79
23.	]	PROPOSED CASIN	G AND	CEMENT	ING PROGI	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	тос	SETTIN	G DEPTH	T	QUANTITY OF CEMI	INT
17-1/2	13-3/8	48 H40	)	6	]		75 sacks	
12-1/4	9-5/8	36 K55		100	0		425 sacks	
8-3/4	7	26 K55	;	580	0		550 sacks	



APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive

reventer program, if any.		
SIGNED STAY attheux	TITLE Area Drilling Supt.	May 16, 1979
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	-
APPROVED BY	TITLE	DATE

Corners Located

PROJECT

# GULF OIL CORP.

Well location,

, located as shown in the

NW 1/4 NW 1/4 Section 23, T4S, R6W,

U.S.B.&M. Duchesne County, Utah.

Skitzy Canyon Ute #2-23-1A



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME. OR UNDER MY SUPERVISION AND THAT THE SAME-ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED LAND SURVEYOR REGISTRATION Nº 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
POBOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE   " = 1000'	9 / 26 / 78
PARTY RK TJ RP	REFERENCES Plat
WEATHER CLEAR / COOL	GULF OIL CORP.

\*\* FILE NOTATIONS \*\*

Date: May 21, 1979	
Operator: <u>Huf Oil Corpor</u> Well No: <u>Akityy Canyon</u> Location: Sec. <u>23</u> T. 45 R. 6W	ation 11+1 2-23-14
Location: Sec. 23 T. 45 R. 6W	County: Duches ne
Card Indexed: //	Entered on N.I.D.: / // Completion Sheet: / //
API Number: 45	5-101-5-30490
Administrative Assistant:	
Remarks:	
Petroleum Engineer: M.J.M.	ndr 5-24-79
Remarks:	K K
Director:	
Remarks:	
INCLUDE WITHIN APPROVAL LETTER:	
Bond Required: //	Survey Plat Required: //
Order No.	Surface Casing Change // to
Rule C-3(c), Topographic exception/o within a 660' radius o	s proposed site /
0.K. Rule C-3 //	O.K. In Skitzy Com. 1/to unit
Other:	
// Le	tter Written/Approved Unit

SCOTT M. MATHESON Governor

GORDON E. HARMSTON

Executive Director,

NATURAL RESOURCES

CLEON B. FEIGHT

Director



OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON

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E. STEELE McINTYRE

#### STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING 1588 West North Temple Salt Lake City, Utah 84116 (801) 533-5771

March 11, 1980

Gulf Oil P.O. Box 2619 Casper, Wyoming 82602

Re: See attached sheet for wells

#### Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If we do not hear from your company within thirty (30) days, we will assume you do not intend to drill these wells, and we will terminate the applications.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

JANICE TABISH CLERK TYPIST

- (1) Well No. Skitzy Canyon Ute 2-22-2C Sec. 22, T. 4S, R. 6W. Duchesne County, Utah
- (2) Well No. Skitzy Canyon Ute 3-22-1C Sec. 22, T. 4S, R. 6W. Duchesne County, Utah
- (3) Well No. Skitzy Canyon Ute 4-22-1A Sec. 22, T. 4S, R. 6W. Duchesne County, Utah
- (4) Well No. Skitzy Canyon Ute 2-23-1A Sec. 23, T. 4S, R. 6W Duchesne County, Utah
- (5) Well No. Skitzy Canyon Ute 4-26-3A Sec. 26, T. 4S, R. 6W. Duchesne County, Utah

SCOTT M. MATHESON
Governor

GORDON E. HARMSTON

Executive Director,

NATURAL RESOURCES

CLEON B. FEIGHT

Director



\_\_\_\_

CHARLES R. HENDERSON

Chairman

OIL, GAS, AND MINING BOARD

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E. STEELE McINTYRE

#### STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING 1588 West North Temple Salt Lake City, Utah 84116 (801) 533-5771 April 9, 1980

Gulf Oil P.O. Box 2619 Casper, Wyoming 82602

Re: See attached sheet for wells.

#### Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill these wells and action will be taken to terminate the application. If you plan on drilling these locations at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT DIRECTOR

- (1) Well No. Skitzy Canyon Ute 2-22-2C Sec. 22. T. 4S, R. 6W. Duchesne County, Utah
- (2) Well No. Skitzy Canyon Ute 2-23-1A Sec. 23, T. 4S, R. 6W.
  Duchesne County, Utah
- (3) Well No. Skitzy Canyon Ute 3-22-1C Sec. 22, T. 4S, R. 6W. Duchesne County, Utah
- (4) Well No. Skitzy Canyon Ute 4-22-1A Sec. 22, T. 4S, R. 6W. Duchesne County, Utah
- (5) Well No. Skitzy Canyon Ute 4-26-3A Sec. 26, T. 4S, R. 6W. Duchesne County, Utah
- (6) Well No. Wontis Valley Unit St. Fed. #118 Sec. 13, T. 8S, R. 21E. Uintah County, Utah

June 19, 1981

Gulf Oil Corporation
P. O. Box 2619
Casper, Wyoming 82602

Re: Well No. Skitzy Canyon Ute 2-23-1A Sec. 23, T. 4S, R. 6W Duchesne County, Utah

#### Gentlemen:

Approval to drill the above mentioned well, which was granted in our letter of August 13, 1979, is hereby terminated for failure to spud it within a reasonable period of time.

If and when you should decide to drill this well, it will be necessary for you to again obtain the approval of this Division.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Cleon B. Feight

Director

/1m